

the Ring



"He that lives upon hope will die fasting."

— Benjamin Franklin (1706-1790), *Poor Richard's Almanac* (1758, preface).

June 8

Volume 3, Number 10, May 27, 1977

University of Victoria



Task force seeks funding for sagging sport program

By John Driscoll

A task force on athletics has submitted a report to President Howard Petch calling for strong support for UVic's sagging extramural athletic program.

The report asks the university to accept extramural athletics as an essential and integral part of the university program and to provide more money for it.

There have been substantial cuts in the extramurals budget for 1977-78, resulting in the dropping of rowing and track and field as major sports at UVic.

Skyrocketing travelling costs for teams in league play and demands for more intramural and recreation programs have contributed to the decrease in funds for extramural athletics.

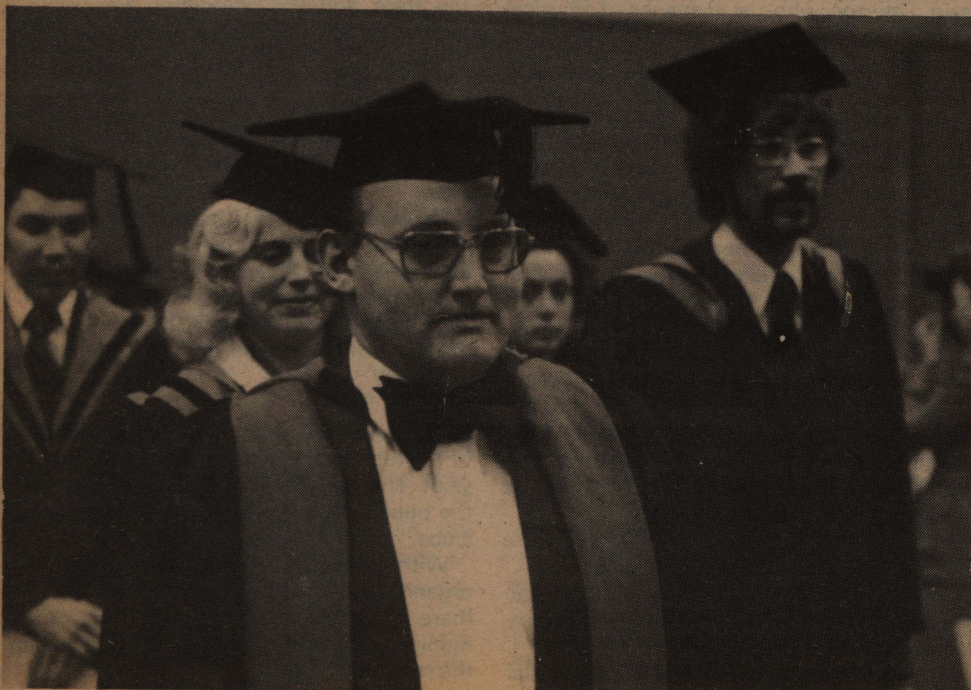
The task force was established by Petch in December 1976, to examine what he called the "serious problems" facing the extramurals program.

He asked the task force to review the program and make recommendations on its future scope and role.

After 11 meetings the task force, under co-chairmen Ian Stewart of the Board of Governors and Robert Hutchison, representing the UVic Alumni, has called for a higher profile for extramurals.

The report recommends that the extramurals budget of \$140,000 be increased by

Turn to page 2



Convocation '77 was a mingling of clockwork ritual, some confusion, many human touches. Mainly it was a family affair. See pages 4, 5, and 8.

McGill Photos

CORRECTION

The dateline on page 1 of the last issue of *The Ring* contained an error. Instead of Volume 3, Number 8, May 27, 1977, it should have been Volume 3, Number 9, May 27, 1977.

campus briefs

Uvic's troubador, Dr. Martin Collis, (Physical Education), was the star attraction at a dinner June 3 for more than 300 delegates to the fourth annual conference on The Teaching of Physical Education.

Collis entertained the large crowd at the Empress Hotel with his message songs about fitness and stressed that there is no magical way to lose weight and get in shape.

The three-day conference sponsored by UVic attracted teachers of physical education from across B.C., some from as far away as Dawson Creek and Rose Prairie. Another keynote address at the conference was given by Dr. Murray Smith of the Human Movement Department at the University of Alberta.

The teachers represented 89 of the 94 school districts in B.C. Many applications had to be turned down because of space limitations. The conference involved intensive workshops in such areas as dance, gymnastics, games, volley ball, wrestling, curriculum design and evaluation of programs.

Conference steering committee chairman Mrs. Maureen Hibberson said the conference was designed to assist teachers in establishing and improving programs in their schools. "We believe it's a valuable experience for teachers and attendance over the years indicates that they think so too," she said.



An acting dean of the new Faculty of Human and Social Development will likely be selected this month to assume duties July 1. The new faculty encompasses the three professional schools of Nursing, Social Work and Public Administration and the Child Care program.

A committee to select a candidate for dean has been struck, but with less than a month before the new dean is to take over, observers feel the committee will probably select a candidate for acting dean from among faculty members on campus. Members of the new faculty will then vote on the acceptability of the candidate.

When it was decided to form a new faculty, Dr. John Dewey, Dean of Academic Affairs, told the Senate that the new faculty is small and the new dean would be expected, at least initially, to teach as well as carry out the duties of an administrator.

Pro schools draw students and funds

The popularity of UVic's newest professional schools of Nursing and Social Work continues, judging from the number of applications for first-year positions.

At the cutoff date for applications, more than twice as many applicants as there are positions had been received in both schools.

Nursing accepted its first class of 30 students in September, 1976, for the two-year, senior level program which leads to a bachelor of science degree in nursing.

In 1976 Social Work also accepted its first class of 30 students for that two-year program leading to a bachelor of social work.

Social Work will enrol a first-year class of 30 again in September. Nursing will accept "at least 30 and possibly more", according to Dr. Isabel MacRae, director of the school.

Both MacRae and Dr. Brian Wharf, director of the school of Social Work, noted that the demand has changed somewhat. "We are receiving more applications from people outside Victoria, from rural areas and small towns," said Wharf. "These are the areas where, we hope, people who graduate from our program will practise their profession."

During this summer the entire first-year Social Work class is out in non-metropolitan areas of B.C. working in a variety of centres as a prerequisite for their second year.

"We're also getting more applications from mature people with work experience," said Wharf. "This should be very good for the school since they will be able to connect their practical experience with what we're offering."

MacRae said the demand had changed somewhat in Nursing, with more requests for information on the program from people in training to become registered nurses.

The first class, in September, 1976, was made up of registered nurses, most of whom had practised for some time. This time we are getting requests from nurses in community college training programs as well.

The Universities Council of British Colum-

bia (UCBC), in its 1977-78 operating grant to UVic, earmarked special additional funds for expanding programs and UVic has provided Nursing and Social Work with the money to recruit additional staff.

MacRae said her school will have three new full-time faculty members and one half-time faculty member for clinics. Social Work has hired two additional faculty members to cope with the doubling of enrolment.

Both Nursing and Social Work emphasize field work and both offer types of programs not available elsewhere in Canada.

Nursing's first year stresses clinical experience with elders, with field work at several extended care units in the Victoria area.

In the first year of Social Work, objectives in social work in rural areas are stressed. Wharf said the school is still working at plans for field work in the second year of the program.

Students in their final year will make a commitment to two-day-a-week work experiences in a number of agencies in the Victoria area.

"These agencies include the Law Centre, the school system, health agencies, child welfare, and employment-related services."

To get into the first year of Social Work, a student must have completed a special second-year course, Social Work 200. This does not mean, however, that only students from the second year at UVic can enter the program.

Summer Session offers the course so that students outside Victoria can take it before September. C.G. Gifford, Director of the Maritime School of Social Work at Dalhousie University, will give the course at UVic this summer.

Both Nursing and Social Work will be components of the new Faculty of Human and Social Development which comes into existence as Uvic's sixth faculty, July 1. The School of Public Administration and the Child Care program are also included in this new faculty.

...Task force

Continued from page 1

\$58,000, primarily so that coaching stipends can be increased and more money can be provided for teams to travel.

Currently the extramurals program is paid for, in part from an athletic fee of \$7.85 per student, levied by the Alma Mater Society. The report recommends that the university take over the entire funding of extramurals.

"It was felt that if the university supports the principle of the pursuit of excellence in athletics, and that athletics should be considered an integral part of the university program, then the university should support the total cost of extramural athletics."

The report also recommends that coaching positions be filled wherever possible from the faculty or staff.

"It was of particular concern to the committee that faculty members have been discouraged from coaching university athletic teams due to the demands on their time to teach and conduct research."

The committee recommends that "where a member of faculty applies for and is appointed to a coaching position, the athletic department will provide payment for replacement of up to one-third of the faculty member's teaching load."

Coaches of UVic extramural teams, with the exception of basketball coach Ken Shields who is a staff member, are all from outside the university.

The report recommends that stipends for coaches be increased from \$22,000 to \$45,000. "The honoraria now range from \$300 to \$2,000 per annum and do not adequately compensate for the time, effort and skill required from a coach who is dedicated to the pursuit of excellence."

Another recommendation is for the separation of the extramurals program from intramural and recreational activities. Both programs now come under Mike Elcock, manager of Athletics and Recreational Services.

The majority of the committee recommends that extramurals be under a director

of athletics, reporting to the president. The manager now reports to the director of Student and Ancillary Services who reports to the dean of Administration who reports to the president.

"The director of athletics should assume a closer relationship to the president and through him to the Board of Governors, since it was felt that the importance of the extramural athletic program warrants this direct relationship," the report states.

While concerned primarily with the extramurals program the task force also emphasized the need to maintain and enhance the existing intramural and recreational program. The task force recommends that this program be supported by student contribution and users' fees.

In a proposed operating budget for extramurals the task force designates basketball (men and women), volleyball (men and women), cross country (men and women) gymnastics (men and women), rugby (men), soccer (men) and field hockey (women) as major sports.

"The committee believes that during the next five years the program may expand to include a competitive swimming program, rowing and track and field at an estimated total cost of \$50,000 a year."

The report received by Petch last week is now being circulated to organizations on campus including the Alma Mater Society and Graduate Students Society. "No action will be taken on the report until after we have some reaction to it," said Petch.

Task force members included Ted Sawchuk, director of Student and Ancillary Services, former AMS president Alistair Palmer, AMS representative Glenda Scott (Educ-4) and Ted Zinkan (Educ-5).

Other members are graduate student Rick Rollins, Dr. Bruce Howe, chairman of the Physical Education division, Dr. Bill Gordon (Mathematics) and Dennis Davis, staff member and Ian MacLean, representing the coaches.

New track seems likely

A two-year, complicated campaign to raise funds to replace the wornout track at Centennial Stadium is almost successfully completed.

And UVic officials are optimistic that a new, rubberized asphalt track will be in existence by September.

Final working drawings for the \$145,000 project are in the hands of the Centennial Stadium Committee. Committee secretary David Titterton said last week he is hopeful that tenders can be called soon.

"Contributions amounting to \$116,000 have been confirmed and we're waiting now to hear from the provincial government," said Titterton who, as manager of Physical Education, Athletics and Recreation Facilities at UVic, is in charge of the day-to-day operation of the stadium facilities.

A breakthrough in the campaign for funds came in April with the announcement from the federal government that it would contribute \$29,000 to the project. This was a reversal of an earlier decision by the federal government which had turned down an application for funding. Following the first decision, Titterton and Floyd Fairclough, director of Community Relations at UVic, visited government officials in Ottawa and after receiving a favorable response, resubmitted the UVic application.

The committee, made up of users of the community facility, then approached Greater Victoria municipal councils, the provincial government and UVic for funds.

To date contributors include UVic (\$25,000), Victoria (\$5,307), Saanich (\$14,230), Oak Bay (4,366) and Esquimalt (\$3,097). The committee also has \$25,000 in a reserve fund for the project.

The committee has asked the provincial

government to match the \$29,000 grant from the federal government.

Centennial stadium and its wornout track were built as a centennial project in 1967 and are operated by the Centennial Stadium Committee made up of representatives of UVic, the four participating municipalities, Victoria Sports Council and the school board.

Titterton explained that the track has lost its resilience through time and heavy use. "The track has served its purpose but now it's like running on concrete," he said.

In recent years athletes and politicians have complained about the deterioration of the track and the committee has made a concerted effort to raise funds for a new track.

According to Titterton the new track will be brought up to international standards. Instead of the six 400-yard lanes on the present track there will be eight 400-metre lanes.

Replacement of the track will also involve moving some of the jumping pits outside the track infield and widening the playing field.

UVic has title to the stadium and administers the program through Titterton's office, but the facility is not used a great deal by the university.

UVic used the facility less than 15 per cent of the total time it was in use during the past year. The rest of the time it was open to the public, to schools and to various sports clubs.

With the track's condition few schools and organizations are using it and in recent years there have been some grumblings from municipal councils over the cost of operating the stadium.

ringers

A lot of Canadians go abroad, especially to the U.S., to obtain a higher education, while many more foreign students come to this country to get the same. This is one of the findings of the latest publication of the Canadian Bureau for International Education called **The Foreign Student Issues, 1976-77** by Dr. Max von Zur-Muehlen. Von Zur-Muehlen, co-ordinator of Research and special Projects for Statistics Canada, explores the most significant foreign issues including the new immigration bill, provincial government policies regarding limitations on or encouragement of foreign student enrolment, and Canada's dependence on foreign-trained university manpower. In statistics provided by the report it is estimated that almost 20 per cent of the highly qualified manpower in Canada obtained university degrees abroad; at the doctoral level, this percentage is close to 60 per cent. The number of Canadians studying abroad declined from nearly 16,000 during the Sixties, to around 10,000 by the mid-Seventies. About 75 per cent of them are in the U.S., a large proportion at the graduate level. There was a marked growth in the number of foreign students admitted to Canada, rising from 30,000 to 51,000 between 1973 and 1975, and approaching 56,000 in 1976. The number of U.S. students attending Canadian universities has dropped off significantly, while those from Hong Kong has jumped dramatically. The 143-page report can be obtained c/o CBIE, 151 Slater, Ottawa, Ont. K1P 5H3.



Dewey: 85.4 per cent want him

Dr. A.D. [Sandy] Kirk and Dr. Keith R. Dixon of the Chemistry Department have been elected fellows of the Chemical Institute of Canada. They received their documents at a general meeting of the institute last week in Montreal. Dr. Kirk, professor and chairman of Chemistry, joined the

department in 1960. He earlier was the recipient of a "von Humboldt Fellowship" from the government of Germany. Dr. Dixon has been responsible for the development of new inorganic courses and has been recognized by the international scientific community for contributions to research.

Rob Gore-Langton, who graduated from here three years ago as an honors Biology student, has been awarded a C.H. Best postdoctoral fellowship to take up a post at the Banting and Best Department of Medical Research at the University of Toronto, according to Dr. Michael Ashwood-Smith, chairman of the Department of Biology. Ashwood-Smith said this is "quite a prestigious award". Gore-Langton is finishing his doctorate at the University of Cambridge. When he graduated from UVic he won the Queen Elizabeth Centennial Scholarship, which is the top award given by the British Columbian government.

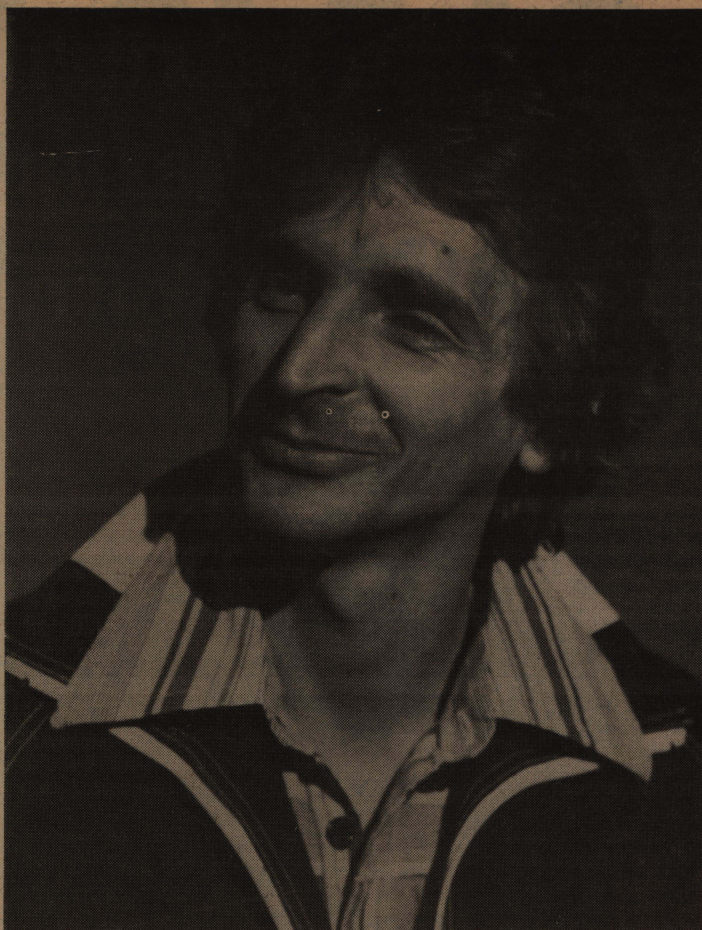
President Howard Petch will take a recommendation to the Board of Governors that Dr. John Dewey (Physics) be appointed to a five-year term as dean of Graduate Studies and Research, as of July 1. Dewey's current term as dean of Academic Affairs expires June 30 when that office will be abolished. The recommendation for Dewey to become dean of Graduate Studies and Research was endorsed by 85.4 per cent of the members of the faculty who voted. Of 341 eligible voters, 247 cast ballots on the recommendation from a search committee, for a response of 72 per cent. There were 211 votes in favor of Dewey's candidacy with 35 voters finding his candidacy unacceptable, and one abstention. Dewey joined the faculty at UVic in 1965 and is completing his first term as dean of Academic Affairs. The Senate and BOG agreed with a proposal from Petch earlier this year to move research administration to the office of the dean of Graduate Studies and to eliminate the position of dean of Academic Affairs as of June 30. The terms of Dewey and Dr. Steve Jennings, dean of Graduate Studies, both end on that date. Petch explained to Senate that graduate studies and research were split four years ago. "Research and graduate studies are closely linked and I feel they should be back together again," he said. Dewey, as dean of Academic Affairs, has been responsible for research and for getting the new professional schools under way. The professional schools will form the new Faculty of Human and Social Development as of July 1 and will have a dean appointed.

notices

Dr. D.P.G. Hamon of the University of Adelaide, South Australia, will give a chemistry seminar on "a Synthesis of Iceane" at 11 a.m. June 10 in Elliott 162.

Two surveys have recently been released by the Association of Universities and Colleges of Canada (AUCC). The first is the **Inventory of Research into Higher Education in Canada** prepared by J.F. Houwing of the national programs directorate. The inventory is an annual AUCC publication and the 1977 edition contains information on 304 research projects related to higher education. The second document is a **Survey of programs of co-operation established between Canadian universities and foreign institutions** prepared by Robert Patry of the information division. The survey represents the first effort to document on an institution-wide basis foreign academic links involving the participation of Canadian universities. A similar survey is planned for 1978. Copies of the surveys can be obtained c/o AUCC, 151 Slater, Ottawa, K1P 5N1.

Members of the Faculty of Graduate Studies are invited to attend the following thesis examinations: William Kosnik, a M.A. candidate in Psychology, on "Operant Conditioning of Auditory Evoked Potential Amplitude in Humans" The Role of Non-Associative and Myogenic Factors", at 10:30 a.m. June 20, Cornett 193 and Gail Brennan, a M.S. candidate in Psychology, on "The Prediction of Cerebral Speech Lateralization and Cognitive Ability in Left and Right Handers on the Basis of Manual Skill", at 1:30 p.m. July 19, Cornett 193.



Kinghorn: heads the company

Phoenix Summer Theatre to open sixth season

A company of 18 undergraduate and graduate Theatre Department students will this year present the sixth season of the Phoenix Summer Theatre, consisting of a repertoire of three plays.

The season opens June 24 with *Loot*, a British comedy written by Joe Orton, and directed by graduate student Don Woticky. *When You Comin' Back, Red Ryder?*, a dramatic lament for the lost American hero, written by Mark Medhoff and directed by graduate student Stephen Elliott, opens June 27. Noel Coward's *Blithe Spirit*, directed by Michael Boucher, another graduate student opens June 30.

All performances begin at 8 p.m. at the Phoenix Theatre, and they will run until July 30.

This year's artistic director is Bindon Kinghorn, a member of the Theatre Department who has been technical director for the

Phoenix Theatre since 1973.

The Phoenix Summer Theatre is not only a popular event for Victoria audiences (it had nearly 100 per cent attendance throughout last year's run) but also an opportunity for theatre students to work in repertory theatre and gain experience in the many aspects of theatre production.

The students, who have been rehearsing since May 24, are also getting paid for their efforts, mainly because of the assistance of the B.C. Ministry of Labor Youth Employment Program.

The summer company will also provide, for the first time, some entertainment for children. It will present storytelling, short skits and songs at matinees on July 9, 16 and 23.

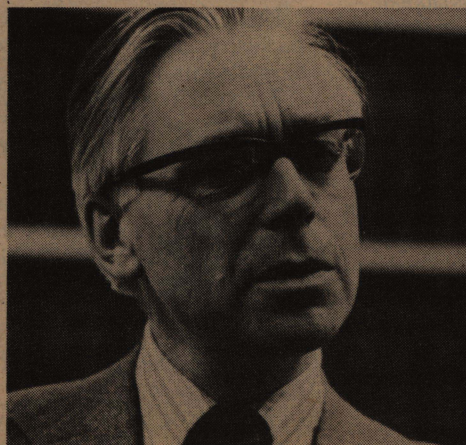
The box office for all shows opens June 15. Further information and reservations are available through 477-4821.

Top law scholar snatched up by UVic

One of Canada's outstanding legal scholars, Dr. Donovan Waters of McGill University, has accepted an appointment at the Faculty of Law at UVic.

Waters will join UVic on July 1.

Dean Murray Fraser said this is an outstanding appointment. "Dr. Waters is a scholar and teacher of international repute.



Waters: leaves McGill

"We are delighted he has decided to move to Victoria, and I am sure he will make a significant contribution to the university and to the legal profession in this province.

Waters is Gale Professor of Law at McGill where he has lectured since 1967. He has degrees from Oxford and the University of London and has held teaching posts at the Universities of Chicago, Oxford, London and Saskatchewan. He is a Barrister-at-Law of Lincoln's Inn, London.

Waters has written extensively in the areas of property and trusts and recently published the leading treatise on the law of trusts in Canada. He has prepared major reports for reform agencies in Quebec, Ontario and Alberta.

His appointment at UVic has been made possible, in part, through a grant by the Law Foundation of British Columbia of \$20,000 towards Waters' salary during his first year at UVic.

"The Law Foundation continues to provide magnificent support for our Law Faculty," said Fraser.

The Faculty of Law at UVic will graduate its first class in 1978.

The Ring is next scheduled to appear July 4. Deadline is noon June 22. Letters to the editor will be published if signed and without libellous content. Letters are subject to editing to meet space requirements. Material contained in **The Ring** can be reprinted or broadcast freely without permission. Credit is not necessary but would be appreciated.

Publisher:
Information Services,
University of Victoria
Information Officer: Maurice N. Cownden.
P.O. Box 1700, Victoria, B.C.
V8W 2Y2
Telephone (604) 477-6911, Ext. 4779, 4780, 4781

International Standard Serial Number
ISSN: 0318-8149

Editor: Bryan McGill
Art Supervisor: James Bennett
Editorial Assistant: John Driscoll
Contributor: Janice Anderson
Typist: Beth Clarke

Typesetting and printing through:
Monday Publications Ltd.
1014 Government Street, Victoria, B.C.

CONVOCATION '77

The best in memory



Driscoll-McGill Photos

Dr. Arthur Fontaine, mace bearer for the afternoon ceremony.



They were coming and going in the two relatively short ceremonies.



A proud son, Colin Griffiths, a second-year Fine Arts student, with his mother, Lorna who graduated as an Education student.

A small voice piped out "hi mommy" as the woman, in cap and gown, made her way from the platform in the McKinnon Centre.

The woman had just knelt before Chancellor Dr. Robert Wallace to be touched on the head by his cap, the traditional symbol of her admission to a bachelor's degree.

Now as she was returning to her seat the small voice called out again, "hi mommy", much to the amusement of the large crowd. The woman didn't answer but as she passed that section of the crowd where the voice had originated she turned, grinning, and waved.

UVic's 14th annual convocation, May 28, was that kind of ceremony, filled with small friendly informalities within the rigid ritual of graduation. Some campus old-timers said they thought it was the most relaxed convocation on record.

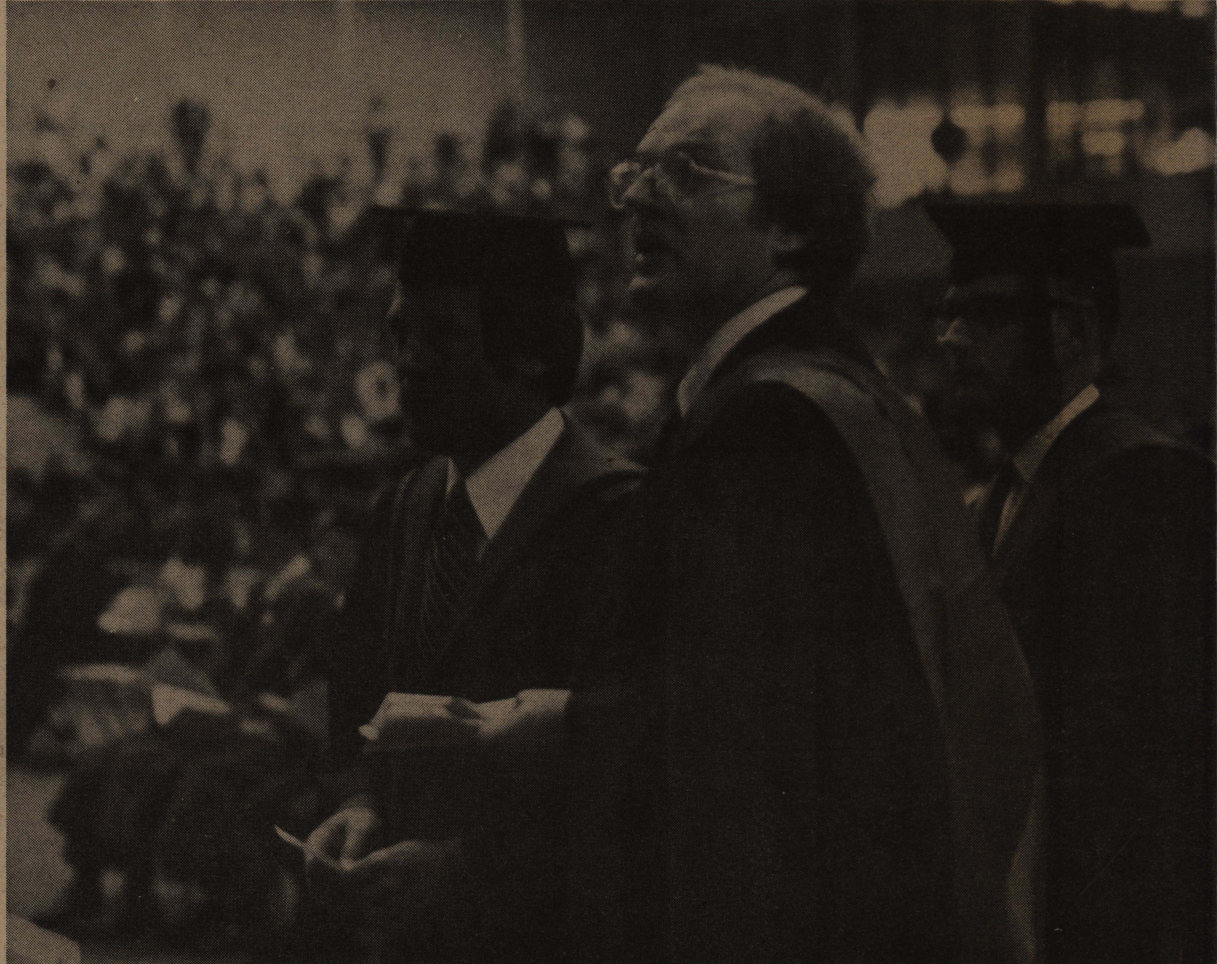
Flashbulbs popped and television cameras whirled as 1,023 bachelors, masters and Ph.Ds were conferred to culminate several years of academic struggle and achievement.

For some the achievement was considerable, considering the circumstances. Among the 545 graduands who attended convocation was William MacKey who received his bachelor of arts degree in philosophy and sociology despite never having attended a class on the UVic campus.

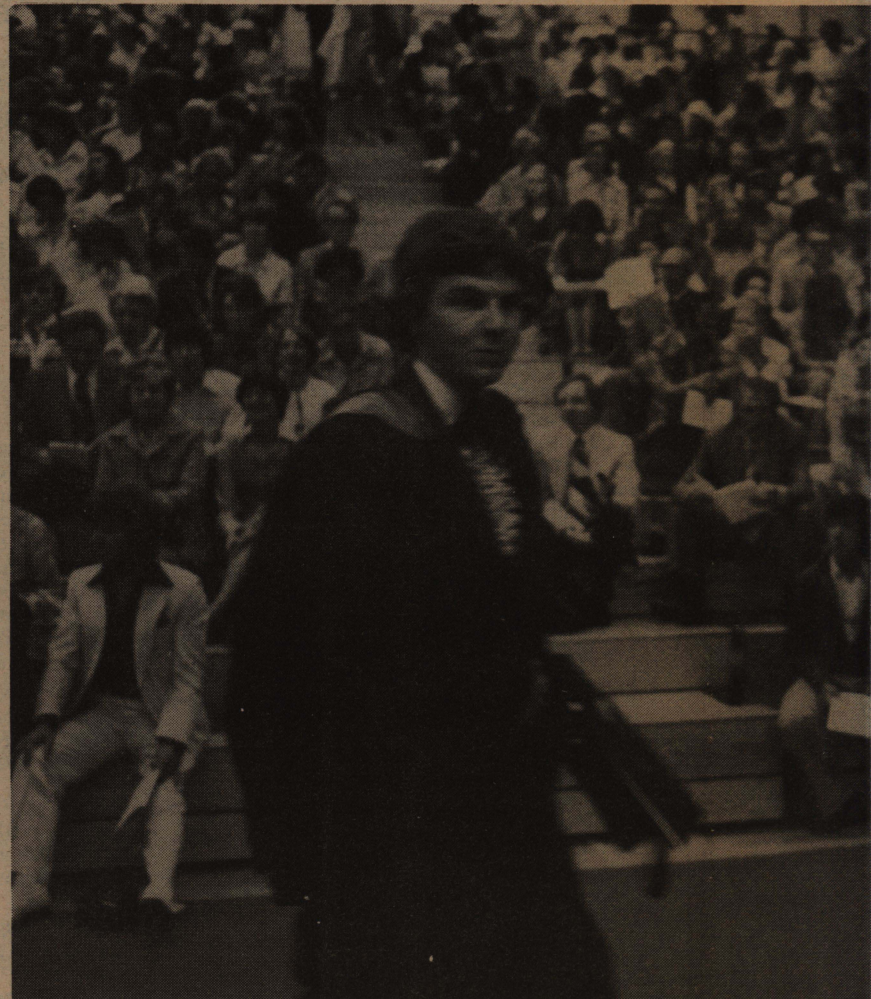
MacKey, 37, is a prisoner in the Agassiz correctional camp and received his entire university education behind bars, through UVic's Correctional Education Program, co-ordinated by Dr. Doug Ayers (Education).

In prison for non-capital murder, MacKey will work as a graduate assistant in the prison program until he becomes eligible for parole.

Also among the graduands was a publicity-shy 74-year-old grandmother, Nancy Rose Malenby, who graduated in Visual



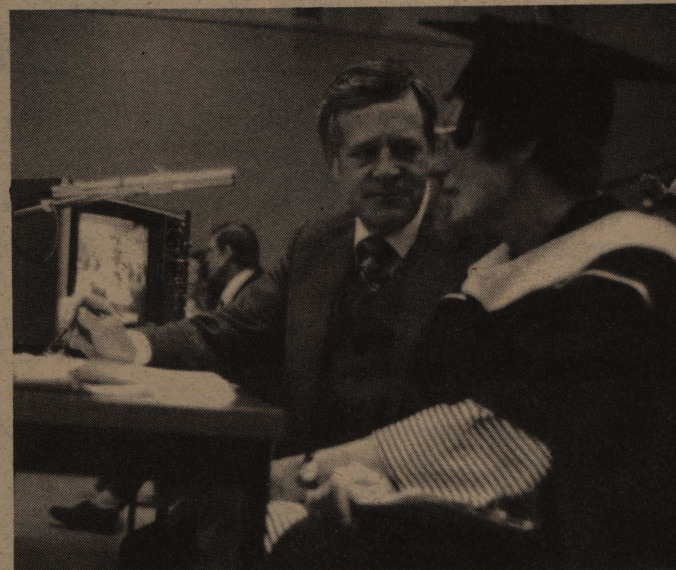
Chief marshal Nels Granewall directs traffic.



Former **Ring** correspondent Les Leyne, of Qualicum Beach, an English graduate, and



The woman behind it all: Betty Wright, ceremonies secretary.



Television commentator Maurice Cownden chats with Anne McLaughlin, chairman of the ceremonies committee.



*'Now how does this \$%& *\$% thing work?'*



Maxwell Cameron Award winner Dominique Boltres and Lieutenant-Governor Walter S. Owen.



...an English graduate, and Dr. Gerald Poulton (Chemistry).

Arts. "I felt I owed it to my grandchildren to get this degree," she said.

The audience broke into spontaneous applause when she went up to the platform for her degree. The audience did the same when a graduand in a wheelchair came up.

For the first time the convocation was split into two ceremonies, and total attendance was estimated to be more than 4,000. Each lasted slightly more than an hour and each went off with scarcely a hitch from the opening pre-convocation notes from the University Wind Ensemble under Jesse Read to the packed post-graduation receptions in the Commons Dining Room.

Some confusion occurred in the morning ceremony when, because of a marshalling oversight, some graduands were out of order in receiving their degrees.

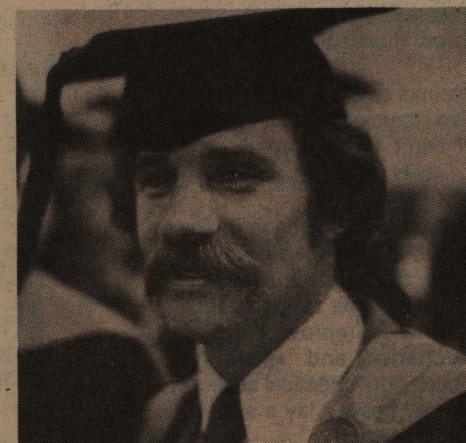
Right up to a few minutes before the ceremonies, organizers were busy in the foyer of the McKinnon Centre, creating order from chaos as graduands and faculty were directed to various robing areas and the public was shepherded to the gymnasium.

Ceremonies and special events chairman Mrs. R.A. McLaughlin (Education) and ceremonies secretary Mrs. Elizabeth Wright were busy attending to last-minute details after months of organizing for the event.

Marshals Nels Granewall (Financial Aid) and Dr. Reg Mitchell (Chemistry) were instructing the various groups of graduands on the niceties of the academic procession. Then with everyone in their place both ceremonies started on time.

Among dignitaries at the ceremonies was Walter S. Owen, Lieutenant-Governor of British Columbia. After the invocation by the Rev. Canon C. Hilary Butler of Christ Church Cathedral, Chancellor Wallace welcomed the graduates and President Dr. Howard Petch presented the honorary degree recipients to the chancellor.

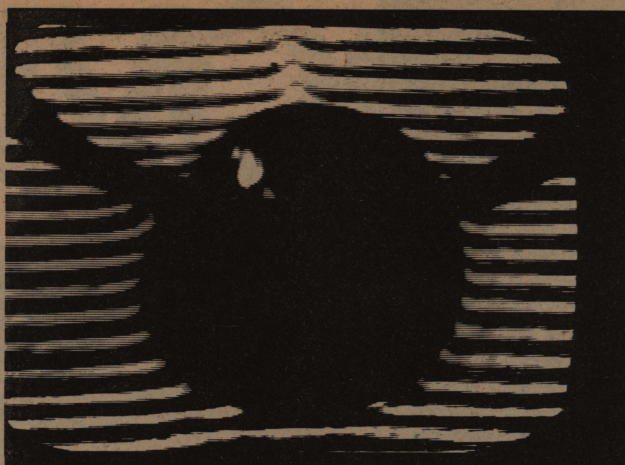
Honorary degrees were bestowed on two distinguished Canadians, one a journalist and diplomat, the other a scientist.



A prisoner gets a break to attend convocation: William MacKey, a graduate in Philosophy and Sociology.

Turn to page 8

This is a photo of a fish egg
racked in an interfereometer.



Why is this chemist hatching fish eggs?

What is a physical chemist like Dr. Robert O'Brien doing hatching salmon eggs in his Elliott Building laboratory?

"Well, I'd rather be learning how to catch salmon than how to hatch them," he said, laughing.

What O'Brien is doing, with the support of Dr. D.F. Alderdice of the Pacific Biological Station at Nanaimo and the help of his research assistants Russell Raine and Dr. Samuel Visaisouk, could help lead to increased salmon production in B.C.

O'Brien has just received a special \$7,000 grant from the Fisheries and Marine Science Service of Environment Canada to expand investigations into the oxygen respiration rate of salmon eggs.

This is part of a massive \$300-million program by the federal government to triple the number of salmon and bring them back to the bountiful levels at the time white men began fishing in B.C. in the early 19th century.

O'Brien said this is entirely possible and should be a reality between 8 and 12 years from now.

He explained that through his project it is hoped fisheries will be better able to overcome the problem of how many spawners to release into a stream.

O'Brien is trying to determine the optimal amount of oxygen that is needed in spawning channels to enhance hatching conditions.

For instance, if more spawners are allowed into a stream than it can handle, many eggs will suffocate from a lack of oxygen. If fewer spawners are allowed, more salmon could be the result.

Less than the optimal amount of oxygen in a river could also cause underdeveloped fingerlings which can't swim properly and are "snapped up easily by trout and other predators."

If a stream has too much oxygen in it, the salmon are prey to fish bubble disease.

From his laboratory findings, O'Brien also hopes to recommend on how to stack eggs better in fisheries, how to improve the flow of water in hatcheries and spawning channels, how to better the chemical aspects of hatchings, and how best to lay a spawning bed for filtration of oxygen.

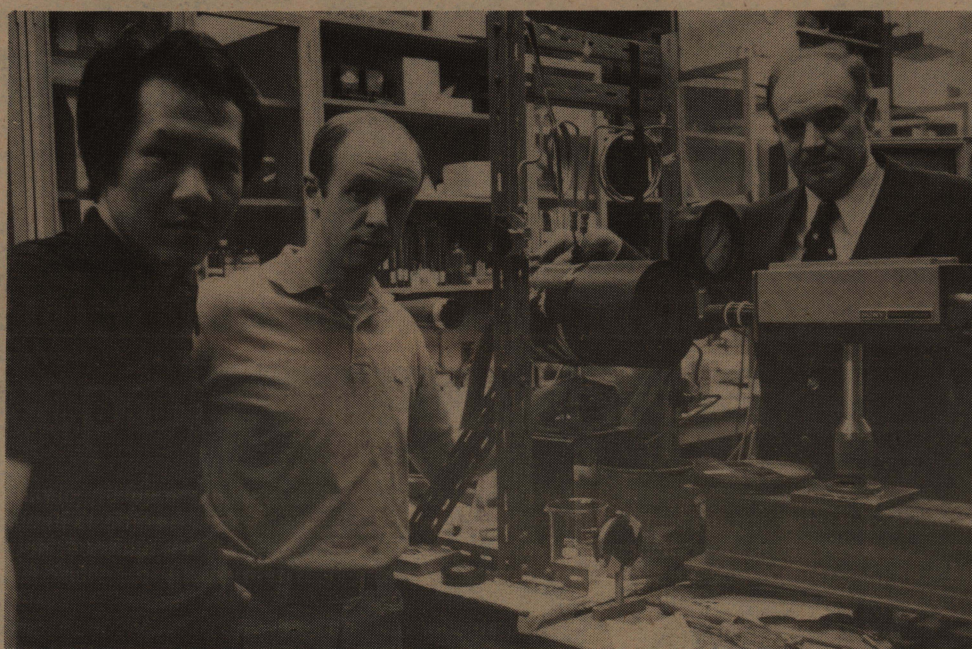
In his lab, O'Brien and his assistants are racking eggs in an interfereometer, under the same water temperature (10 degrees Celsius) in which salmon spawn.

The interfereometer gives precise analyses of whatever changes are happening to the eggs, which are recorded by means of a videotape recorder.

One problem they are facing is how to distinguish better those eggs taking in oxygen metabolic products or wastes they are discharging.

Once this is overcome, the scientists will be able to tell how much oxygen an egg utilizes through its average 50-day gestation period.

In earlier experiments O'Brien has carried out for Environment Canada, he found that convection or the downward movement of water from the surface is important in hatching, because this is one way oxygen is brought down to the bed of a river.



Gathered around the interfereometer are, from left, Visaisouk, Raine and O'Brien.

He has submitted a report on this to *Science*.

Still, why is a chemist doing such work that seems to be more in the field of biology?

O'Brien replies that one reason is that he is a specialist in the diffusion of oxygen into water, and that he is looking at what is happening to the eggs from a chemist's point of view.

He specifically became involved in the

interaction of oxygen and salmon eggs because of a situation a number of years back by Dr. Alderdice and Arthur Fontaine, a UVic biologist, and because one of his doctorate students, Bill Hyslop, was also interested in this area.

O'Brien admitted that he has had to learn about fish biology with the help of colleagues from both the departments of Biology and Biochemistry and Microbiology.

Fish expert hauls in another big one

Dr. Trevor Trust, a UVic fish microbiologist with a growing international reputation, has been awarded yet another major grant, and this time it is to study whether salmonella disease is being imported into Canada through household aquarium species.

It is a \$38,000 grant from National Health and Welfare for two years of research.

Trust, who steps down June 30 as chairman of the Department of Biochemistry and Microbiology, has recently been carrying on two other major fish research projects as the result of big grants.

The aim of his latest project is to see what the incidence of this bug is in aquariums, and to determine whether there is a potential health threat.

"There may be nothing to worry about, which would be good. If there is something, we will be able to define the problem and work at getting rid of it."

Canada imports aquarium species mainly from Hong Kong, South America and the U.S. Trust said he will collect species from these various sources. The species will be fish, frogs, snails and newts.

Turtles have been banned from Canada

because they are a salmonella menace, and Trust will tell you he wouldn't keep any exotic frogs around the house.

Trust will be away during 1977-78 on study leave, and in his absence research associate Karen Bartlett will head the salmonella project.

He will be at South Hampton Medical School in England to work with a group studying gonorrhea.

He will also collaborate with researchers at nearby Weymouth Fish Disease Laboratory.

Before he goes to England he will give three lectures in Australia on fish disease. These are being sponsored by the South Australian government.

He also has been invited to give seminars in Melbourne, and a paper in New Zealand.

Dr. Al Matheson, from the National Research Council in Ottawa, has been given a five-year appointment, effective July 1, to take over from Trust as department chairman.

Trust said Matheson has an international reputation on ribosomal protein structure. "He's a nice catch for the university."

'Friendly' pay talks wrap up

After what has been described by both sides as "open and amicable discussions" between the administration and the Faculty Association, President Howard Petch plans to take a recommendation for faculty salary increases for 1977-78 to the June 20 meeting of the Board of Governors.

While neither side would say what Petch's recommendation to the BOG will be, it is known that the recommended salary adjustment will be less than the 12.3 per cent increase requested by the association.

A presidential subcommittee held a long series of meetings with a subcommittee of the salary committee of the Faculty Association.

Dr. Larry Yore, chairman of the association's salary committee, said the discussions were wide-ranging and that the administration proved to be "open and flexible" in their attitude.

"Unfortunately we were unable to reach an agreement that both sides could support as far as money matters are concerned," he said.

Yore felt it was important to point out that the meetings were not bargaining sessions. "The faculty at this university do not bargain with the administration. We discuss."

Petch said that while the two sides were not able to reach complete agreement, "I hope to be able to take a recommendation to the June meeting of the board."

"The university appointees have told me that the meetings were most amicable," he said.

Yore said the university appointees did listen to the association's position. "In many areas they took our advice," he said. "I felt the whole operation was above board and open."

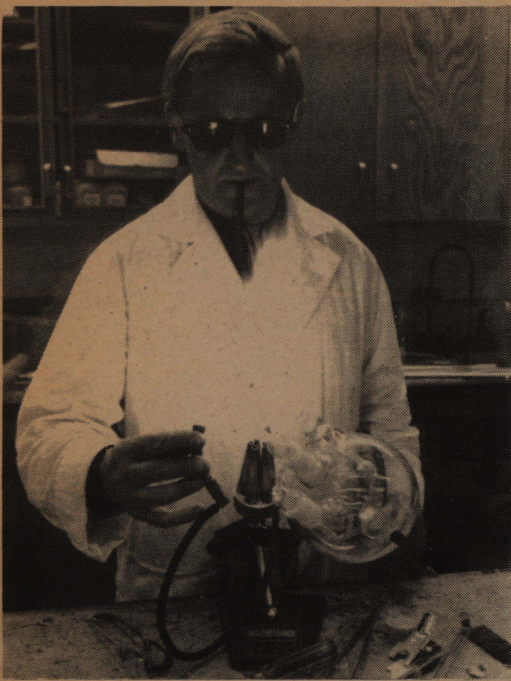
He said that while he may not agree with the president's position on salary matters, "I understand he feels there are many financial pressures on him and I can empathize with his position."

Yore said his committee was prepared to meet this month if the president wanted further discussions.

In March the Faculty Association submitted its proposed salary adjustments for 1977-78 to the executive council. The association asked for an 8 per cent cost of living adjustment plus a career progress increment of 4.3 per cent for a total wage increase of 12.3 per cent.

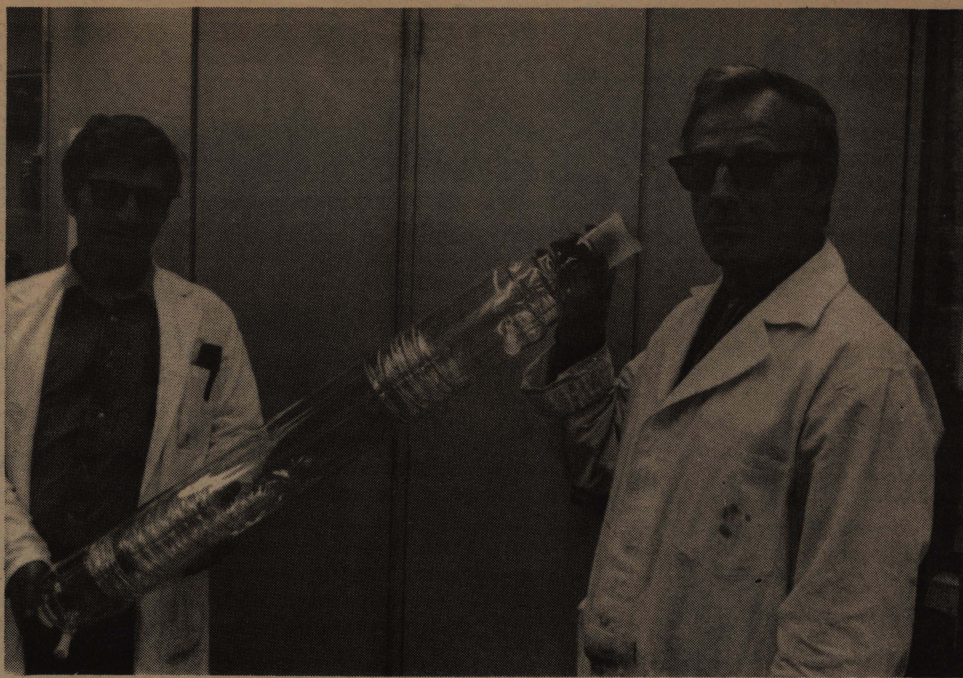
For 1976-77 faculty received a 9.3 per cent increase. The association pointed out that this increase had been consumed by inflation, as indicated by the Consumer Price Index which rose in Vancouver by 9.3 per cent from September 1975 to September 1976.

The association also called for other items to be discussed including an annual cost-of-living adjustment in Summer Session Stipends, increases in the salary floors for all faculty ranks and improved financial support for faculty on leave.



Eisenberg blows glass at his work bench

Presenting Eisenberg and Searle :



Searle, left, and Eisenberg show one of their intricate creations

THE GLASSWORK MAGICIANS

By Bryan McGill

They should put some of the breathtaking creations of Arnold Eisenberg and David Searle on display in an art gallery.

What they make are usually found in the obscurity of UVic's labs and serve the purposes of scientists and students wrapped up in the complexities of experiments.

Eisenberg and Searle are scientific glassblowers who spin their craft in a cluttered workshop in the basement of the Elliott Building.

"We design and make intricate big assemblies to meet the specific needs of experimenters," said Eisenberg.

Some of these assemblies are huge, and within a cascade of various-shaped bowls of glass are chains of globules and tubing within spirals of tubing.

Eisenberg and Searle call such creations "triple-walled assemblies", that is, putting glass shapes inside glass shapes inside glass shapes.

It would be similar to building something inside a model schooner that has been built into a bottle.

One of these jobs takes one of the men two or three days to do.

"We spend a lot of time in tailoring glassware to a specific experiment," said Eisenberg. Often this requires much preliminary discussion with the scientist in coming up with a design.

Everything is different. "There is an infinite variety of custom jobs."

A lot of their work is routine, and takes only a few minutes to do, such as rush repairs on some glasswork that has broken while an experiment is in progress.

"People are continually coming down in a bit of a panic," said Eisenberg.

These two glasswork alchemists use borosilicate that comes in tubes ranging in diameter from two millimeters to six inches.

With a blowtorch and sheer lung power "we can shape it, push it, blow it up, shrink it to any size."

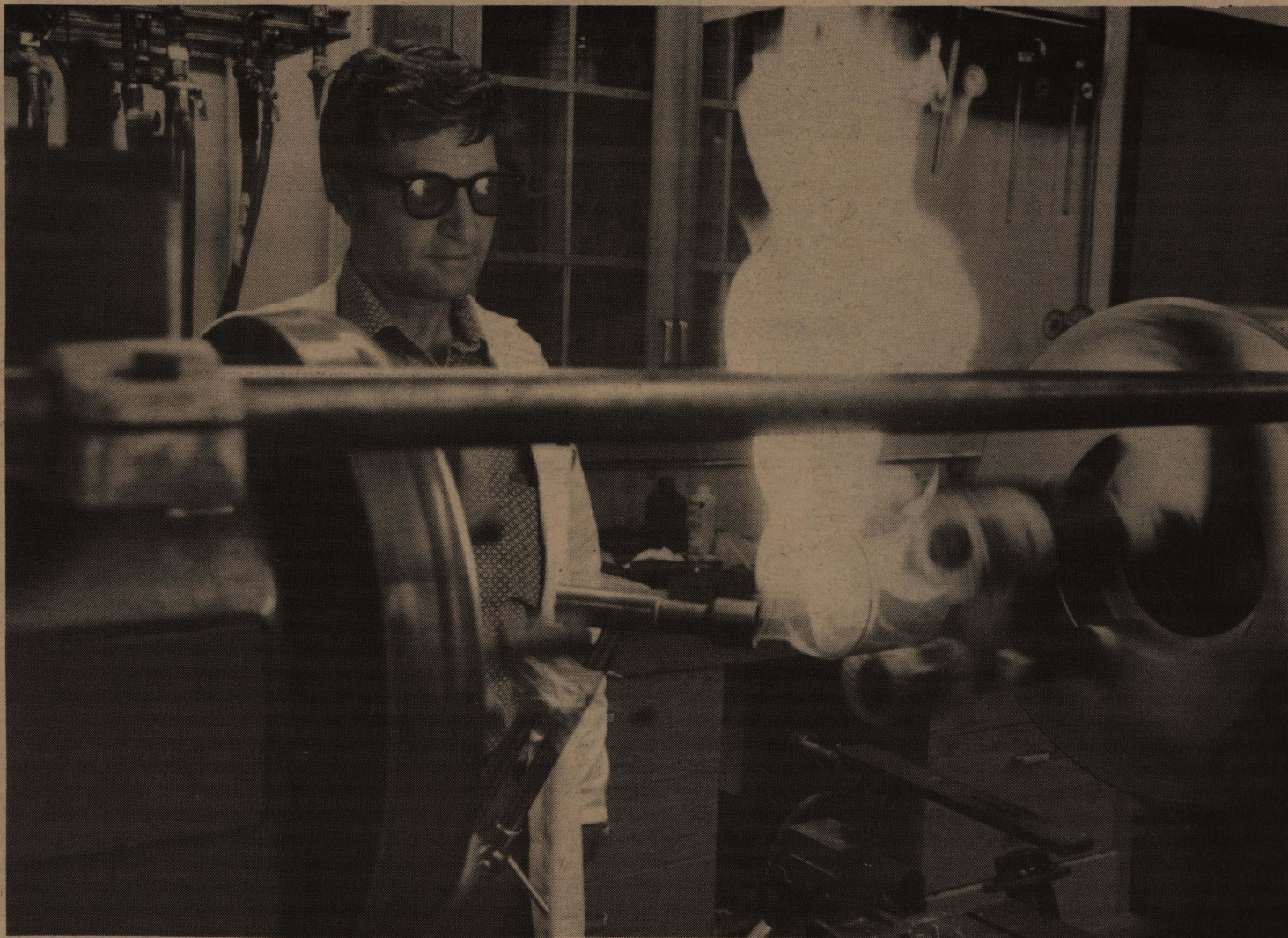
The small, delicate work is done on work benches while lathes are used for larger pieces of glass.

After an assembly is created it is put into an annealing oven and brought up to a temperature of 1,050 degrees fahrenheit before being cooled down again to room temperature. "This makes the glass completely free of stress and less likely to break."

Both men suffer a lot of small cuts and burns. "We keep a pile of bandages around," said Eisenberg.

"And we never grab anything off the benches," said Searle. "Because a piece of glass might be hot we pick it up very gingerly."

Eisenberg has been with UVic for 12 years after he plyed his trade with a research centre



Searle works a piece on the lathe

for a large oil company in the U.K. Searle has been here five years after he worked for 12 years in Edmonton for the Neon Sign Company.

The two are the only scientific glassblowers on the Island.

Although both work in the Chemistry Department, they do all custom glass jobs for the other scientific departments of Physics, Biology, and Biochemistry and Microbiology.

Do they ever make decorative pieces for the sheer hell of it?

"Every glassblower has something in his house he has made," replied the matter-of-fact Eisenberg.

McGill Photos



CONVOCATION '77

Continued from page 5

W. Arthur Irwin, 78, former Canadian ambassador to Mexico, former editor of **MacLean's** and most recently publisher of the **Victoria Times** before he retired in 1971, and Dr. Harry E. Gunning, 60, a professor of chemistry and president of the University of Alberta, received the degree of Doctor of Laws (honoris causa).

A highlight of the ceremonies was the presentation of awards to the academic leaders at UVic.

Dean of Arts and Science Dr. Alfred Fischer presented John Edward Bernard, 22, who was awarded UVic's most prestigious prize, the Governor-General's medal for achieving the highest standing among graduates in the Faculty of Arts and Science.

Dean of Education Dr. Norma Mickelson presented Dominique Linda Boltres and Jane Dewhurst as recipients of the Maxwell Cameron Memorial medals and prizes.

Dewhurst, 32, achieved first-class standing in both the practical and theoretical phases of her work towards a bachelor of education degree in the elementary program while Boltres, 22, accomplished the same in the secondary program.

After the ceremonies, graduates, family and friends milled about in the warm sunshine taking pictures and exchanging hugs. At the receptions it was wall-to-wall people munching on hors d'oeuvres and sipping coffee and tea.

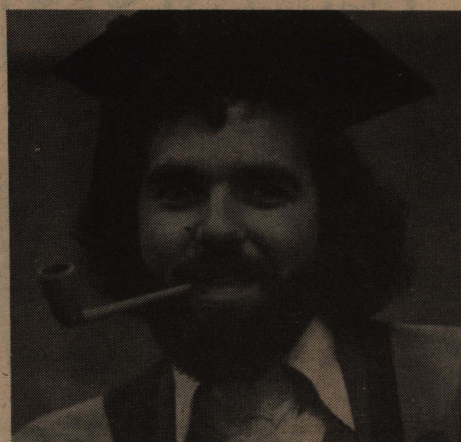
Later in the evening a dinner and dance for graduates attracted 800 people straining Food Services' capacities to the limit. At the dinner students presented their own "honorary graduate" diploma to retired UVic gardener Jan Vanderlen, a gregarious employee of Buildings and Grounds who became well-known to students, staff and faculty during his 12 years attending to the flowers, trees and lawns on campus.



John Lang, left, of Calgary with his son-in-law, wife and daughter Sophie Driftmier, graduate in Linguistics.



Dr. Trevor Trust (Biochemistry and Microbiology) sports medieval headpiece.



Adding some Gallic flair is Erik Gaston Marie Bouillet, of Paris, a graduate in Pacific Studies.



Dr. Geoffrey P. Mason, mace bearer for morning ceremony.

GRADUATES CAN SEE THEMSELVES

Convocation Day, 1977 will be repeated in full on Victoria Cablevision Channel 10 Sunday, June 12 at 11:30 a.m. The color cablecast of both the morning and afternoon ceremonies carried live May 28 was videotape recorded for rebroadcast next Sunday to give graduates an opportunity to see themselves receiving their degrees.

calendar

Thursday, June 9th

3:30—5:00 pm

Petch Peeves. Students, staff and faculty welcome to see Dr. Petch in his office. Please call local 4201 for confirmation of time.

Friday, June 10th

11:00 am

Chemistry Seminar. Dr. D.P.G. Hamon, University of Adelaide, South Australia will speak on "A Synthesis of Iceane". Elliott 162.

Thursday, June 16th

3:30—5:00 pm

Petch Peeves. Students, staff and faculty welcome to see Dr. Petch in his office. Please call local 4201 for confirmation of time.

Monday, June 20th

1:00 pm

Meeting. Board of Governors. Gold Room.

Thursday, June 23rd

3:30—5:00 pm

Petch Peeves. Students, staff and faculty welcome to see Dr. Petch in his office. Please call local 4201 for confirmation of time.

Friday, June 24th

8:00 pm

Phoenix Summer Theatre. "Loot". Admission charge.

Saturday, June 25th

8:00 pm,

Phoenix Summer Theatre. "Loot". Admission charge.

Monday, June 27th

8:00 pm

Phoenix Summer Theatre. "When You Comin' Back Red Ryder?". Admission charge.

Thursday, June 30th

3:30—5:00 pm

Petch Peeves. Students, staff and faculty welcome to see Dr. Petch in his office. Please call local 4201 for confirmation of time.

8:00 pm

Phoenix Summer Theatre. "Blithe Spirit". Admission charge.

Saturday, July 2nd

8:00 pm

Phoenix Summer Theatre. "When You Comin' Back Red Ryder?". Admission charge.

Monday, July 4th

8:00 pm

Phoenix Summer Theatre. "When You Comin' Back Red Ryder?". Admission charge.